

Pascua, Noralin F

From: Pascua, Noralin F
Sent: Tuesday, April 02, 2013 8:43 AM
To: sablad.elizabeth@epa.gov
Cc: Poentis, Kris T
Subject: Public Notice Package - Permit No. HI 0021130 - AES Hawaii, Inc.
Attachments: 0021130-04003PKP.13.PDF; 04003PKP.13a.doc; 04003PKP.13b.doc; 04003PKP.13c.doc

Ms. Sablad,

Please see attached documents for your use/file.

If you have any questions, please contact Ms. Kris Poentis at (808) 586-4309.

Thanks,
Nora
DOH-CWB

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

LORETTA J. FUDDY, A.C.S.W., M.P.H.
DIRECTOR OF HEALTH

In reply, please refer to:
DOH/CWB

04003PKP.13

April 2, 2013

Mr. Michael Savidge
Vice President
AES Hawaii, Inc.
91-086 Kaomi Loop
Kapolei, Hawaii 96707

Attention: Mr. Jason Tremblay
Environmental Coordinator

Dear Mr. Savidge:

**Subject: Notice of Proposed Water Pollution Control Permit for the
National Pollutant Discharge Elimination System (NPDES) Application for
AES Hawaii, Inc.
Honolulu, Island of Oahu, Hawaii
Permit No. HI 0021130**

The Department of Health (DOH) requests that you publish the enclosed copy of the "Notice of Proposed Water Pollution Control Permit" regarding your application for an NPDES permit to discharge into waters of the United States from the subject facility. Also enclosed are copies of the NPDES public notice permit and fact sheet.

The public notice permit attachment, "Standard NPDES Permit Conditions," may be downloaded from the CWB website at:
<http://hawaii.gov/health/environmental/water/cleanwater/about/forms/pdf/stdcond12.pdf>.

The public notice must be published in the ***Honolulu Star-Advertiser*** on **April 11, 2013**. As specified in Hawaii Administrative Rules, Chapter 11-55, Section 11-55-09(d), you are required to pay all publication costs and **submit the affidavit(s) of publication to the Clean Water Branch (CWB)** at 919 Ala Moana Boulevard, Room 301, Honolulu, HI 96814 within four (4) weeks of the publication date.

Failure to publish the enclosed public notice on April 11, 2013, may result in denial of your NPDES permit application.

Comments on the proposed permit or a request for public hearing may be submitted to the CWB for a period of 30 calendar days following the date of the public notice. Should the DOH find that a significant degree of public interest exists with respect to the proposed NPDES permit, a public hearing may be held.

For future submittals, include **Permit No. HI 0021130** and the following certification statement in your cover letter:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Should you have any questions regarding the processing of your application, please contact Ms. Kris Poentis of the Engineering Section, CWB, at 586-4309.

Sincerely,



STUART YAMADA, P.E., CHIEF
Environmental Management Division

KP:np

Enclosure: 1. Notice of Proposed Water Pollution Control Permit
2. Draft NPDES Permit
3. Rationale

c: Water Division (WTR-5), CWA Standards and Permits Office, EPA, Region 9
(w/encls.) [via e-mail sablade.elizabeth@epa.gov only]

**NOTICE OF PROPOSED WATER POLLUTION CONTROL PERMIT
FOR AES HAWAII, INC.
NPDES PERMIT NO. HI 0021130**

13-CW-PW-53

April 11, 2013

The Department of Health (DOH) tentatively proposes to reissue a National Pollutant Discharge Elimination System (NPDES) permit to discharge storm water runoff to the Pacific Ocean, subject to special conditions to:

**AES Hawaii, Inc.
91-086 Kaomi Loop
Kapolei, Hawaii 96707**

The proposed draft permit for the existing discharge will expire five (5) years from the permit issuance date.

AES Hawaii, Inc. (hereinafter Permittee) operates the facility, located in Campbell Industrial Park, Kapolei, Oahu, Hawaii. The facility consists of a large coal-fired cogeneration plant that simultaneously produces electrical and thermal (steam) energy. The electrical energy produced by the facility is sold to the Hawaiian Electric Company and the thermal energy is sold to the Chevron Hawaii Refinery. Coal used in the operation is transported to the facility from the Barbers Point Deep Draft Harbor via a covered conveyor.

Process wastewater associated with the production of electrical and thermal energy is discharged to underground injection wells. Storm water runoff associated with the bulk materials storage area is directed to retention basins with a capacity of containing a 10-year, 24-hour rainfall event. Overflows from the retention basin are discharged to the Pacific Ocean through Outfall Serial No. 002 located at: Latitude 21°17'56"N and Longitude 158°06'22"W. Storm water runoff from the rest of the facility is discharged to the Pacific Ocean through Outfall Serial Nos. 001 and 003 located at: Latitude 21°18'16"N and Longitude 158°06'38"W, and Latitude 21°17'24" and Longitude 158°06'40" respectively.

RO and R1 water distribution lines from the Honouliuli Water Recycling Facility were installed within the facility to supply the Permittee and the Chevron Refinery with these types of water. If there should be pipeline failure of the distribution lines, RO and R1 waters will discharge through Outfall Serial Nos. 001, 002, and 003 at coordinates described above.

The Pacific Ocean is designated as "Class A, Marine Water" under Section 11-54-3(c)(2), Hawaii Administrative Rules (HAR). Protected beneficial uses of Class A waters include recreation, aesthetic enjoyment, and the propagation of aquatic life.

Persons wishing to comment upon or object to the proposed NPDES permit or to request a public hearing, should submit their comments or requests in writing no later than 30 calendar days after the date of this notice, either in person or by mail, to:

Clean Water Branch
Environmental Management Division
Department of Health
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814-4920

Copies of the proposed public notice permit and other information are available for public inspection, Monday through Friday (excluding holidays) from 7:45 a.m. until 4:15 p.m., at the DOH office address shown. Copies may be bought. The public notice permit and fact sheet are also available on the internet at:

<http://www.hawaii.gov/health/environmental/water/cleanwater/pubntcs/index.html>.

For more information or if you have special needs due to disability that will aid you in inspecting and/or commenting on the public notice permit and related information, please contact Mr. Darryl C. Lum, Supervisor of the Engineering Section, Clean Water Branch, at the above address or (808) 586-4309 (Voice) at least seven (7) calendar days before the comment deadline. For those who use a TTY/TDD, please call through Sprint Relay Hawaii, at 1-711 or 1-877-447-5991.

All comments and requests received on time will be considered. If DOH determines that there is significant public interest, a public hearing may be held after at least 30 calendar days of public notice.

If DOH's position is substantially unchanged after considering all timely written comments and all oral comments at any public hearing that may be held, then the DOH will issue the NPDES permit and this action will be final.

Please notify anyone you know who would be interested in this matter.

LORETTA J. FUDDY, A.C.S.W., M.P.H.
Director of Health

04003PKP.13a

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. § 1251 et seq.; the "Act") and, Hawaii Revised Statutes, Chapter 342D and Hawaii Administrative Rules, Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii,

AES HAWAII, INC.

(hereinafter PERMITTEE),

is authorized to discharge storm water runoff, and RO and R1 water resulting from distribution line failures, from its AES Hawaii, Inc.'s Coal-Fired Cogeneration Facility,

located at 91-086 Kaomi Loop, Kapolei, Oahu, Hawaii 96707,

to the Pacific Ocean, from Outfalls located at the following coordinates:

Outfall Serial No.	Latitude	Longitude
001	21°18'16"N	158°06'38"W
002	21°17'56"N	158°06'22"W
003	21°17'24"N	158°06'40"W

in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the attached DOH "Standard NPDES Permit Conditions."

All references to Title 40 of the Code of Federal Regulations (CFR), are to regulations that are in effect on July 1, 2011, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit shall become effective 30 calendar days after the date of issuance.

This permit and the authorization to discharge will expire at midnight,

_____.

Signed this ____ day of _____, 2013.

(For) Director of Health

**PUBLIC NOTICE PERMIT
April 11, 2013**

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STANDARD NPDES PERMIT CONDITIONS (VERSION 14)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Storm Water Runoff Associated With Bulk Materials Storage Area

During the period beginning with the effective date of this permit and lasting through _____, the Permittee is authorized to discharge storm water runoff from the bulk materials storage area to Outfall Serial No. 002 in accordance with the conditions below.

a. Authorized Discharges

The Permittee is authorized to discharge storm water runoff associated with bulk materials storage only in the event that rainfall in excess of a 10-year, 24-hour rainfall event (8 inches of rainfall within 24 hours) causes an overflow from "containment facilities."

"Containment facilities" shall mean facilities designed and constructed to contain the storm water runoff from a 10-year, 24-hour rainfall event; and operated in a manner to maintain a state of availability to contain storm water runoff from recurring or from subsequent precipitation.

b. Effluent Limitations and Monitoring Requirements

PARAMETER	DISCHARGE LIMITATION	UNITS	MONITORING FREQUENCY	SAMPLE TYPE
Flow	Report	MGD	Once/Discharge	Estimate
Total Suspended Solids	Report	MG/L	Once/Discharge	Grab
Turbidity	Report	NTU	Once/Discharge	Grab
Dissolved Oxygen	Report	% Saturation	Once/Discharge	Grab
pH	7.6 - 8.6	Standard Units	Once/Discharge	Grab ¹
Temperature	Report	°C	Once/Discharge	Grab

Report Monitoring and reporting required only.

MGD Million gallons per day.

MG/L Milligrams per liter.

NTU Nephelometric turbidity units.

¹ The Permittee shall analyze the effluent for pH within 15 minutes of when the sample was taken.

c. Sampling Locations

The Permittee shall sample storm water runoff associated with the bulk materials storage area where the storm water runoff exits the facility and prior to mixing with receiving waters.

d. Rainfall Information

- (1) The Permittee shall use the National Weather Service gage station at Kalaeloa Airport to monitor rainfall.
- (2) The Permittee shall also establish, operate, and maintain a gage station at the plant and record rainfall on a daily basis. The Permittee shall use a National Weather Service Standard Rain Gage.

2. Storm Water Runoff Associated with Industrial Activity

The Permittee shall monitor storm water runoff from all areas except the bulk materials storage area discharging to Outfall Serial Nos. 001 and 003 in accordance with the conditions below:

a. Effluent Limitations and Monitoring Requirements

PARAMETER	DISCHARGE LIMITATION	UNITS	MONITORING FREQUENCY	TYPE OF SAMPLE ¹
Flow	Report	MGD	Once/Year ²	Calculated or Estimated
Biochemical Oxygen Demand (5-Day)	Report	mg/l	Once/Year ²	Composite ³
Chemical Oxygen Demand	Report	mg/l	Once/Year ²	Composite ³
Total Suspended Solids	Report	mg/l	Once/Year ²	Composite ³
Total Phosphorus	Report	mg/l	Once/Year ²	Composite ³
Total Nitrogen	Report	mg/l	Once/Year ²	Composite ³
Nitrate + Nitrite Nitrogen	Report	mg/l	Once/Year ²	Composite ³
Oil and Grease	15	mg/l	Once/Year ²	Grab
pH Range	7.6 - 8.6	Standard Units	Once/Year ²	Grab ⁴
Aluminum (total recoverable)	Report	µg/l	Once/Year ²	Composite ³
Arsenic (total recoverable)	69 ⁵	µg/l	Once/Year ²	Composite ³
Copper (total recoverable)	2.9 ⁵	µg/l	Once/Year ²	Composite ³
Iron (total recoverable)	Report	µg/l	Once/Year ²	Composite ³
Lead (total recoverable)	140 ⁵	µg/l	Once/Year ²	Composite ³
Manganese (total recoverable)	Report	µg/l	Once/Year ²	Composite ³

Report Monitoring and reporting required only.
N/A Not Applicable.
MGD Million gallons per day
mg/l Milligrams per liter
µg/l Micrograms per liter

¹ The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

"Grab sample" means a sample collected during the first 15 minutes of the discharge.

"Composite sample" means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to the total flow of storm water discharge flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically.

Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

² "Once/Year" shall mean once per calendar year.

³ If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.

⁴ The Permittee shall measure pH within 15 minutes of obtaining the grab sample.

⁵ The DOH may modify the numerical effluent limitation when a site-specific translator between the dissolved fraction and total recoverable forms has been developed by the Permittee and approved by the Director of Health (Director).

b. Sampling Locations

The Permittee shall sample storm water runoff associated with industrial activity where the storm water runoff exits the facility and prior to mixing with receiving waters.

c. Storm Water Pollution Control Plan (SWPCP)

(1) The Permittee shall continue to implement its most current SWPCP.

- (2) The Permittee shall revise the SWPCP should any discharge limitation be exceeded. The revisions shall include measures to reduce the amount of pollutants found to be in exceedance from entering storm water runoff.
- (3) The Permittee shall review and update the SWPCP as often as needed or required by the Director. The Permittee shall report any major changes to the SWPCP to the Director within 30 calendar days from the date the changes were made. The Permittee shall maintain documentation of all changes made to the SWPCP.
- (4) The Permittee shall maintain a copy of the SWPCP at the facility.

3. RO and R1 Water

- a. The Permittee shall visually monitor RO and R1 water discharges through Outfall Serial Nos. 001, 002, and 003 by taking photographs of the discharge entering the receiving water, and of any plume resulting from the discharge. The Permittee shall submit the photographs to the DOH within 10 calendar days from when they were taken.
- b. The Permittee shall implement a RO/R1 water spill response plan.
- c. The Permittee shall review and update the RO/R1 water spill response plan as necessary or required by the Director. The Permittee shall report any major changes to the RO/R1 water spill response plan to the Director within 30 calendar days from the date the changes were made. The Permittee shall maintain documentation of all changes made to the RO/R1 water spill response plan.
- d. The Permittee shall maintain a copy of the RO/R1 water spill response plan at the facility.

B. REPORTING REQUIREMENTS

1. Discharge Information

a. Storm Water Runoff from the Bulk Materials Storage Area

The Permittee shall submit the following information no later than 10 calendar days after any discharge of storm water runoff from the bulk materials storage area:

- (1) Description and cause of the discharge;
- (2) Date, time, and duration of the discharge;
- (3) Action taken to reduce, eliminate, or prevent recurrence of the discharge; and
- (4) Rainfall in inches per day for each day which contributed to, or caused the discharge.

b. RO and/or R1 Spills and Discharges

- (1) The Permittee shall orally notify the Clean Water Branch (CWB) at 586-4309 within 24 hours when pipeline failure results in a spill and/or discharge of RO and/or R1 water.
- (2) The Permittee shall also submit the following information no later than 10 calendar days after the spill and/or discharge of RO and/or R1 water:
 - (a) Description and cause of the spill and/or discharge;
 - (b) Date, time, and duration of the spill and/or discharge; and
 - (c) Action taken to reduce, eliminate, or prevent recurrence of the spill and/or discharge.
 - (d) Photographs of discharges as required by Part A.3.a.

2. Monitoring Results

- a. The Permittee shall summarize and report monitoring results on a Discharge Monitoring Report (DMR) Form (EPA No. 3320-1) in a format that allows direct comparison with the limitations and requirements of this permit.
- b. The Permittee shall submit DMRs for discharges of storm water runoff from the bulk materials storage area on an annual basis. The Permittee shall submit DMR on an annual basis with maximum values for each required monitoring parameter for discharges occurring during that year. As an attachment to the DMR, the Permittee shall submit all monitoring results for each discharge event.
- c. The Permittee shall submit DMRs for discharges of storm water runoff from all areas except the bulk materials storage area on an annual basis.
- d. The DMRs shall be postmarked no later than the 28th day of the month following the completed monitoring period. If there was no discharge during the monitoring period, then the DMR shall so state.

3. Non-compliance

a. Oral Reports

The Permittee shall orally notify the CWB at 586-4309 within 24 hours when the following occurs:

- (1) Any exceedance of a pollutant limitation;
- (2) Any non-compliance which may endanger human health or the environment;
- (3) Any bypass or upset resulting in or contributing to a discharge to State waters; and
- (4) Any discharge not authorized by this permit.

b. Written Reports

- (1) For those non-compliances requiring immediate oral reporting, the Permittee shall submit a written non-compliance report within five (5) calendar days of the time the Permittee becomes aware of the non-compliance. The report shall be submitted to the CWB address listed in Part B.4.
- (2) The report shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the amount of time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.
- (3) The Director may waive the written report or the 5-day deadline on a case-by-case basis if the oral report has been received within 24 hours of the non-compliance.

4. Points of Contact

The Permittee shall submit DMR and other written reports required by Part B of this permit to the Director at the following address:

Director of Health
State Department of Health
Environmental Management Division
Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814-4920

C. OTHER REQUIREMENTS

1. Schedule of Submission

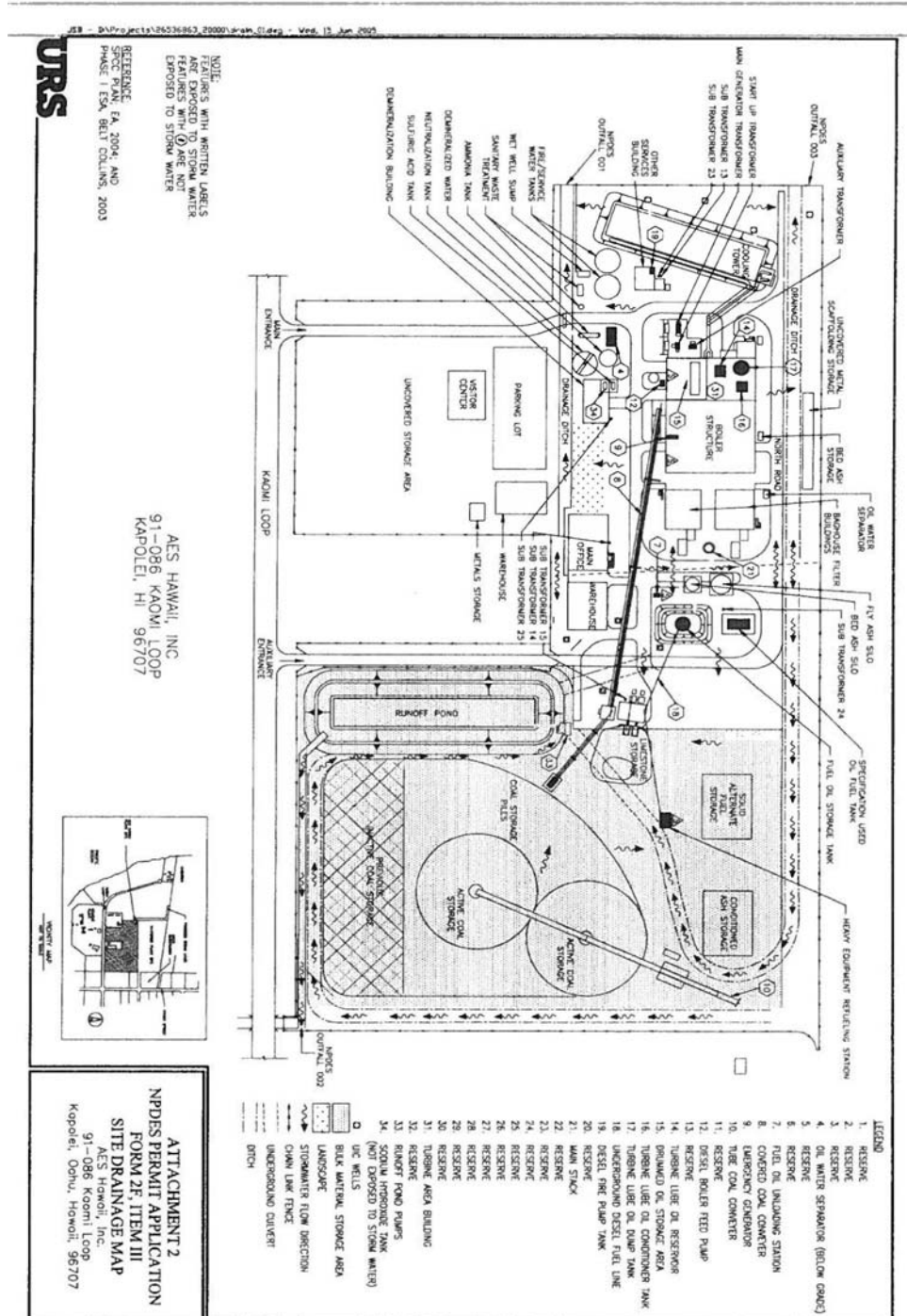
- a. Within 60 calendar days after the effective date of this permit, the Permittee shall submit an effluent monitoring program detailing the sampling requirements as specified in Part A of this permit to the Director for approval. The effluent monitoring program shall include the following:
 - (1) Sampling locations;
 - (2) Sampling procedures;
 - (3) Test method to be used for each parameter; and
 - (4) Quality Assurance/Quality Control methods.
- b. Within 60 calendar days after the effective date of this permit, the Permittee shall submit an RO/R1 water spill response plan that includes specific measures to be taken by the Permittee should a RO or R1 water spill occur and identifies the Permittee's and the distribution line owner's specific areas of responsibilities.

2. Schedule of Maintenance

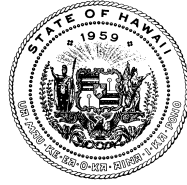
The Permittee shall submit a schedule for approval by the Director at least 14 calendar days prior to any maintenance of facilities which might result in exceedance of effluent limitations. The schedule shall contain a description of the maintenance and its purpose; the period of maintenance, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent occurrence of non-compliance.

04003PKP.13b

D. LOCATION MAP



NEIL ABERCROMBIE
GOVERNOR OF HAWAII



LORETTA J. FUDDY, A.C.S.W., M.P.H.
DIRECTOR OF HEALTH

**STATE OF HAWAII
DEPARTMENT OF HEALTH**

P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
DOH/CWB

04003PKP.13c
DATE: April 11, 2013
NPDES PERMIT NO. HI 0021130

**RATIONALE: APPLICATION FOR RENEWAL OF NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT TO
DISCHARGE TO VARIOUS WATERS OF THE UNITED STATES**

PERMITTEE: AES HAWAII, INC.

FACILITY: AES HAWAII, INC.

FACILITY STREET ADDRESS

AES Hawaii, Inc.
91-086 Kaomi Loop
Kapolei, Hawaii 96707

PERMITTEE MAILING ADDRESS

AES Hawaii, Inc.
91-086 Kaomi Loop
Kapolei, Hawaii 96707

Contact: Mr. Jason Tremblay
Environmental Coordinator
Telephone: (808) 682-3412

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This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this permit.

A. Permit Information

The following table summarizes administrative information related to the AES Hawaii, Inc. (hereinafter facility).

Table F-1. Facility Information

Permittee	AES Hawaii, Inc.	
Name of Facility	AES Hawaii, Inc.	
Facility Address	91-086 Kaomi Loop Kapolei, Hawaii 96707	
Facility Contact, Title, and Phone	Jason Tremblay, Environmental (808) 682-3412	
Authorized Person to Sign and Submit Reports	Michael Savidge, Vice President (808) 532-3400	
Mailing Address	91-086 Kaomi Loop Kapolei, Hawaii 96707	
Billing Address	Same as above	
Type of Facility	Cogeneration Facility	
Pretreatment Program	NA	
Reclamation Requirements	NA	
Facility Permitted Flow	Outfall Serial No.	Discharge
	001	Storm Water Runoff
	002	Storm Water Runoff from Coal Pile
	003	Storm Water Runoff
Receiving Waters	Pacific Ocean	
Receiving Water Types	Open Coastal	
Receiving Water Classification	Class A Marine Waters	

1. NPDES Permit No. HI 0021130 became effective on August 29, 2006, and expired on November 30, 2010. The Permittee reapplied for an NPDES permit on July 15, 2010. The Hawaii Department of Health (DOH) administratively extended the NPDES permit on November 30, 2010, pending the reapplication processing.
2. The Director of Health (Director) proposes to issue a permit to discharge to the waters of the state until five (5) years after the date of issuance, and has included in the proposed permit those terms and conditions which he has determined are necessary to carry out the provisions of the Federal Water Pollution Control Act (P.L. 92-500), Federal Clean Water Act (CWA) of 1988 (P.L. 95-217) and Hawaii Revised Statutes, Chapter 342D.

B. Facility Setting

1. Facility Operation and Location

AES Hawaii, Inc. (hereinafter Permittee) operates the facility, located in Campbell Industrial Park, Kapolei, Oahu, Hawaii. The facility consists of a large coal-fired cogeneration plant that simultaneously produces electrical and thermal (steam) energy. The electrical energy produced by the facility is sold to the Hawaiian Electric Company and the thermal energy is sold to the Chevron Hawaii Refinery. Coal used in the operation is transported to the facility from the Barbers Point Deep Draft Harbor via a covered conveyor.

Process wastewater associated with the production of electrical and thermal energy is discharged to underground injection wells. Storm water runoff associated with the bulk materials storage area is directed to retention basins with a capacity of containing a 10-year, 24-hour rainfall event. Overflows from the retention basin are discharged to the Pacific Ocean through Outfall Serial No. 002 located at: Latitude 21°17'56"N and Longitude 158°06'22"W.

Storm water runoff from the rest of the facility is discharged to the Pacific Ocean through Outfall Serial Nos. 001 and 003 located at: Latitude 21°18'16"N and Longitude 158°06'38"W, and Latitude 21°17'24" and Longitude 158°06'40" respectively.

RO and R1 water distribution lines from the Honouliuli Water Recycling Facility were installed within the facility to supply the Permittee and the Chevron Refinery with these types of water. If there should be pipeline failure of the distribution lines, RO and R1 waters will discharge through Outfall Serial Nos. 001, 002, and 003 at coordinates described above.

2. Receiving Water Classification

The Pacific Ocean is designated as "Class A, Marine Water" under Section 11-54-3(c)(2), Hawaii Administrative Rules (HAR). Protected beneficial uses of Class A waters include recreation, aesthetic enjoyment, and the propagation of aquatic life.

3. Impaired Water Bodies on CWA 303(d) List

CWA section 303(d) requires states to identify specific water bodies where water quality standards (WQS) are not expected to be met after implementation of technology-based effluent limitations on point sources.

The 2008/2010 State of Hawaii Water Quality Monitoring and Assessment Report, which includes the 2008/2010 303(d) List of Impaired Water Bodies in the State of Hawaii, was completed on July 3, 2012.

According to the report, it is unknown whether the waters surrounding the discharge location is impaired. The waterbody is classified as Category 3, not enough data to evaluate and there is no TMDL priority assigned.

4. Summary of Existing Limitations and Monitoring Requirements

Effluent limitations contained in the existing permit for discharges from Outfall Serial Nos. 001 and 002, and monitoring data reported between January 2007 and December 2011, are presented in the following tables.

a. Monitoring Data from Outfall Serial No. 001

No discharges reported from Outfall Serial No. 001 during the time period indicated above.

b. Monitoring Data from Outfall Serial No. 002

No discharges reported from Outfall Serial No. 002 during the time period indicated above.

c. Monitoring Data from Outfall Serial No. 003

Table F-2. Historic Effluent Limitations and Monitoring Data – Outfall Serial No. 003

Parameter	Units	Discharge Limitation	Maximum Reported Value¹
Flow	MGD	Report Only	0.047
Biochemical Oxygen Demand	mg/l	Report Only	12.4
Chemical Oxygen Demand	mg/l	Report Only	51.5
Total Suspended Solids	mg/l	Report Only	583
Total Nitrogen	µg/l	Report Only	13.11
Total Phosphorus	µg/l	Report Only	2
Nitrate + Nitrite Nitrogen	µg/l	Report Only	11.9
pH	Standard Units	7.6 – 8.6	6.72 (min) 8.82 (max)
Oil and Grease	mg/l	15	9.2
Arsenic	µg/l	69	2.62
Aluminum	µg/l	Report Only	3430
Iron	µg/l	Report Only	3680
Manganese	µg/l	Report Only	109

RATIONALE
PERMIT NO. HI 0021130
Page 6

Parameter	Units	Discharge Limitation	Maximum Reported Value ¹
Copper	µg/l	2.9	43.2
Lead	µg/l	140	18.9

¹ Source: Annual DMRs submitted by the Permittee for the years 2007 through 2011.

d. RO/R1 Water

There is no data regarding the quality of the RO/R1 water. The Permittee does not anticipate any discharges of these types of water unless a break in the distribution line running under the facility occurs. The distribution line is owned by the City and County of Honolulu, Board of Water Supply.

RO or “reverse osmosis” water is ultrapure processed water suitable for industrial purposes. RO water is produced when secondary treated wastewater is sent through microfiltration units prior to being forced through an ultra-fine membrane. This process removes bacteria, viruses and minerals.

R1 water is the highest quality irrigation water regulated by the Department. This water can be safely used for landscaping and irrigating golf courses and public green spaces and is safe for human contact. R-1 water is produced when secondary treated wastewater is sent through sand filters and disinfected using with ultraviolet light.

RO and R1 waters are regulated by the DOH, Wastewater Branch.

5. Planned Changes

No planned changes were declared at this time.

C. Proposed Determinations

Proposed Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements, as specified in Part A of the proposed permit, are based on the current permit; HAR, Chapter 11-54, Water Quality Standards; HAR, Chapter 11-55, Water Pollution Control; and best professional judgment.

Conditions specified in 40 CFR Part 423, Steam Electric Power Generating Point Source Category do not apply to this facility because no process wastewater is discharged into surface waters. Cooling water generated at the facility is discharged into onsite injection wells. Storm water runoff from the bulk materials storage area is also exempt from this part because 40 CFR Section 423.12(b)(10) specifies that storm water discharges resulting from rainfall greater than a 10-year, 24-hour rainfall

event shall not be subject to the effluent limitations and monitoring requirements specified in 40 CFR Section 423.12(b)(9). AES Hawaii's bulk materials storage area includes storm water containment facilities able to hold runoff from 10-year, 24-hour rainfall events, and thus only runoff resulting from rainfall greater than 10-year, 24-hour rainfall events is discharged.

The proposed effluent limitations and monitoring requirements are based on the current permit.

D. Public Participation

Persons wishing to comment upon or object to the proposed draft NPDES permit in accordance with HAR, Sections 11-55-09(b) and 11-55-09(d), may submit their comments in writing by May 13, 2013 either in person or by mail, to:

Clean Water Branch
Environmental Management Division
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814-4920